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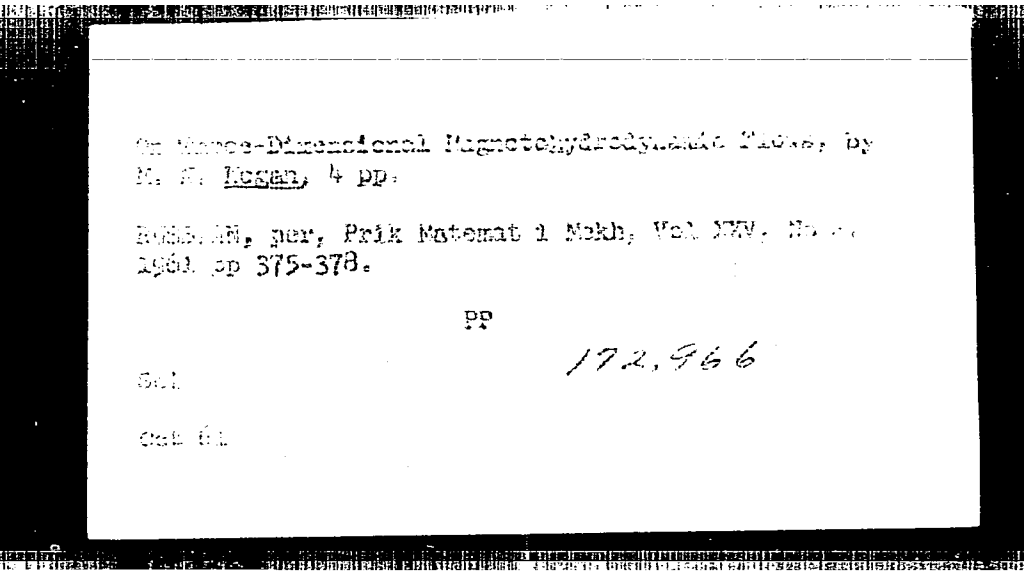

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The equation

$$q_T = -k_w \frac{\partial T}{\partial y}\bigg|_{y=0} = k_w(T_w - T_\infty)\frac{1}{\sqrt{\pi}}\sqrt{\frac{c_p p_\infty \mu_\infty}{k_\infty x}}$$

is derived for the heat transfered to the heat layer. For very great thermo-conductivity the equations

$$\frac{\partial u}{\partial x}(1 - M_\infty^2) + \frac{\partial v}{\partial y} = \frac{u_\infty}{T_\infty}\frac{\partial T}{\partial x}$$

and

$$\frac{\partial u}{\partial y} - \frac{\partial u}{\partial x} = 0$$

are derived, where u, v, etc.are the parameters of disturbed flow.

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